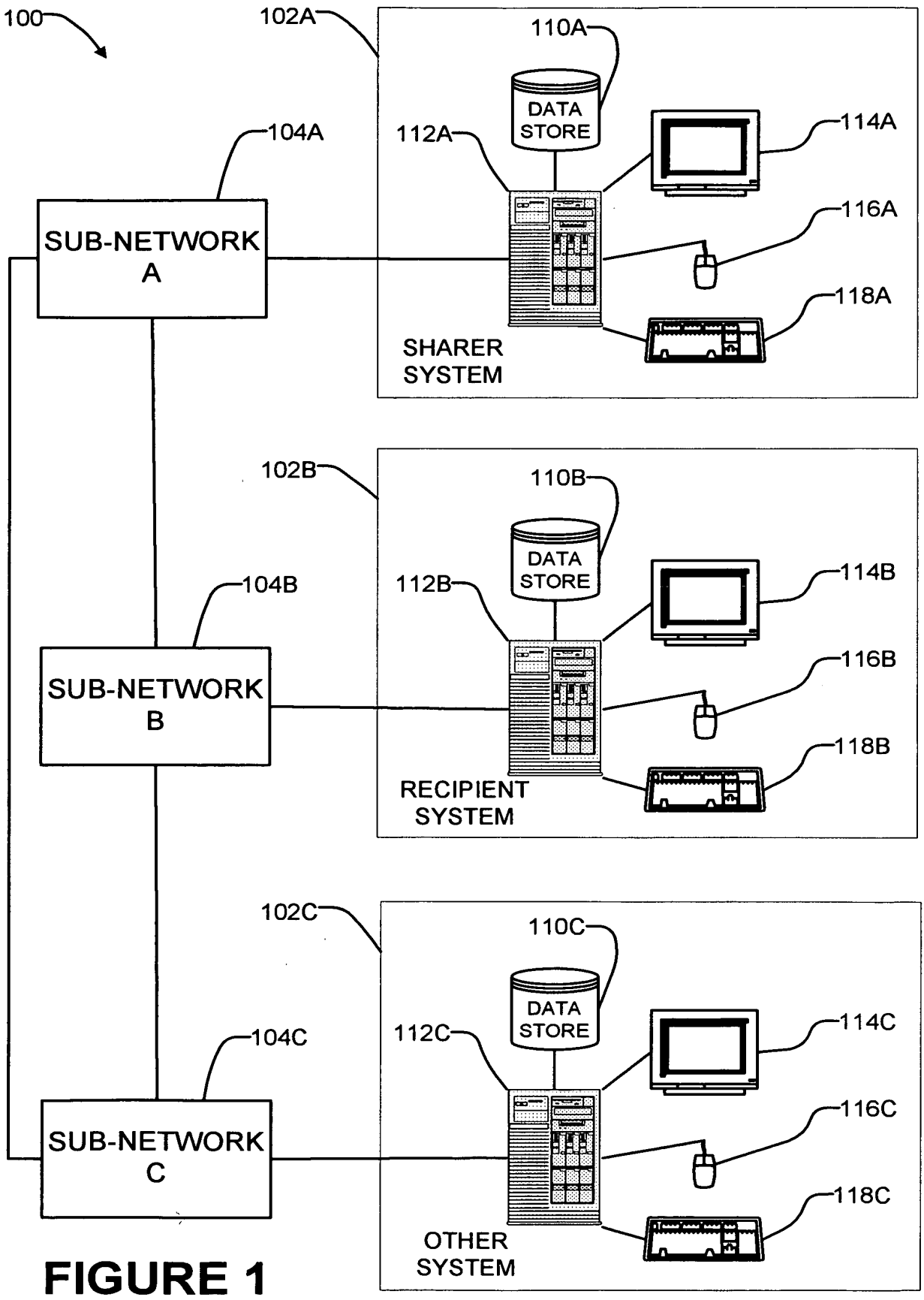
100
102A
110A
DATA STORE
112A
104A
114A
SUB-NETWORK A
116A
118A
SHARER SYSTEM
102B
110B
DATA STORE
112B
104B
114B
SUB-NETWORK B
116B
118B
RECIPIENT SYSTEM
102C
110C
DATA STORE
112C
104C
114C
SUB-NETWORK C
116C
118C
OTHER SYSTEM

FIGURE 1

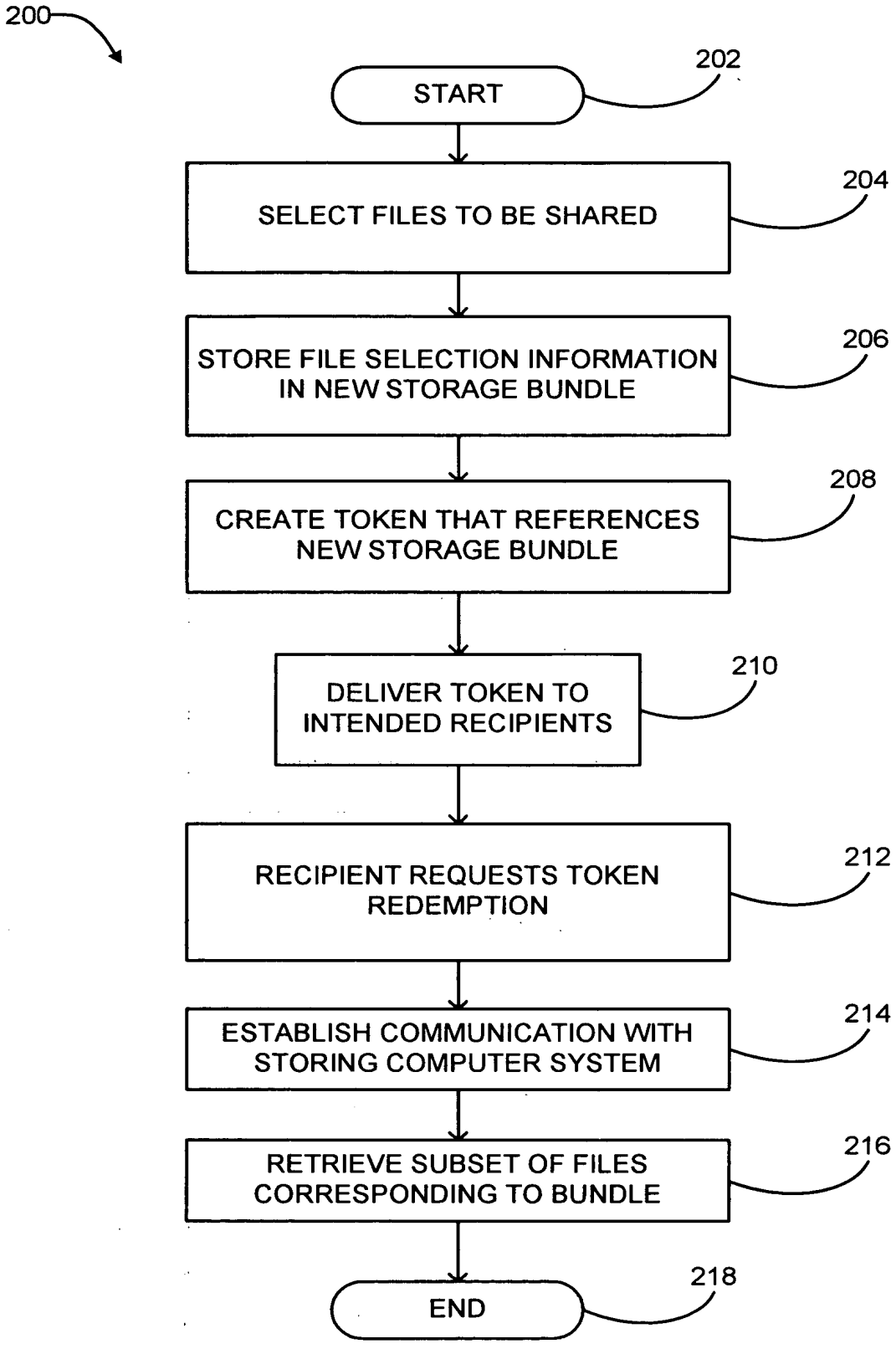
200
START
202
SELECT FILES TO BE SHARED
204
STORE FILE SELECTION INFORMATION IN NEW STORAGE BUNDLE
206
CREATE TOKEN THAT REFERENCES NEW STORAGE BUNDLE
208
DELIVER TOKEN TO INTENDED RECIPIENTS
210
RECIPIENT REQUESTS TOKEN REDEMPTION
212
ESTABLISH COMMUNICATION WITH STORING COMPUTER SYSTEM
214
RETRIEVE SUBSET OF FILES CORRESPONDING TO BUNDLE
216
END
218

FIGURE 2

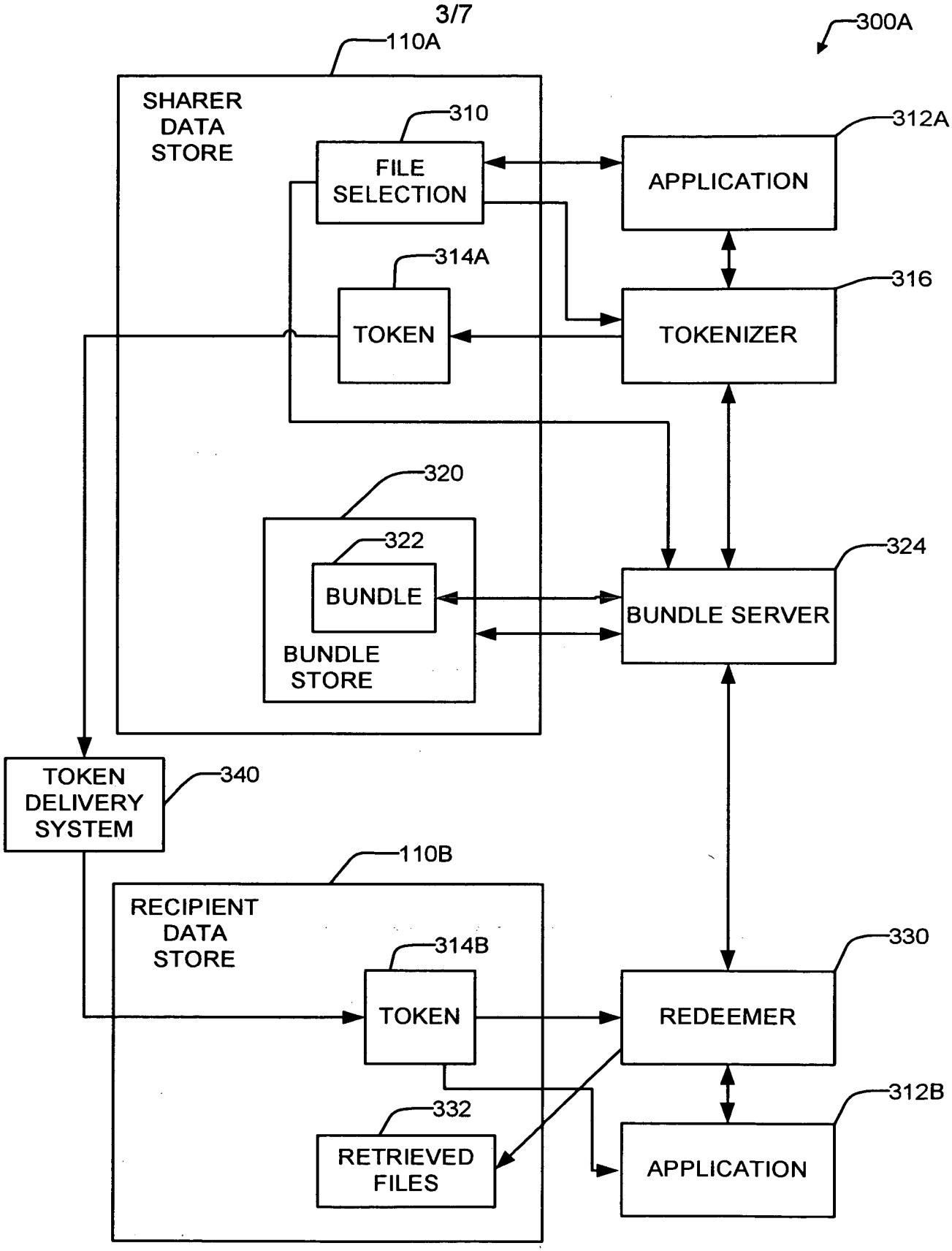
300A
110A
SHARER DATA STORE
310
FILE SELECTION
312A
APPLICATION
314A
TOKEN
316
TOKENIZER
320
322
BUNDLE
BUNDLE STORE
324
BUNDLE SERVER
TOKEN DELIVERY SYSTEM
340
110B
RECIPIENT DATA STORE
314B
TOKEN
330
REDEEMER
332
RETRIEVED FILES
312B
APPLICATION

FIGURE 3A

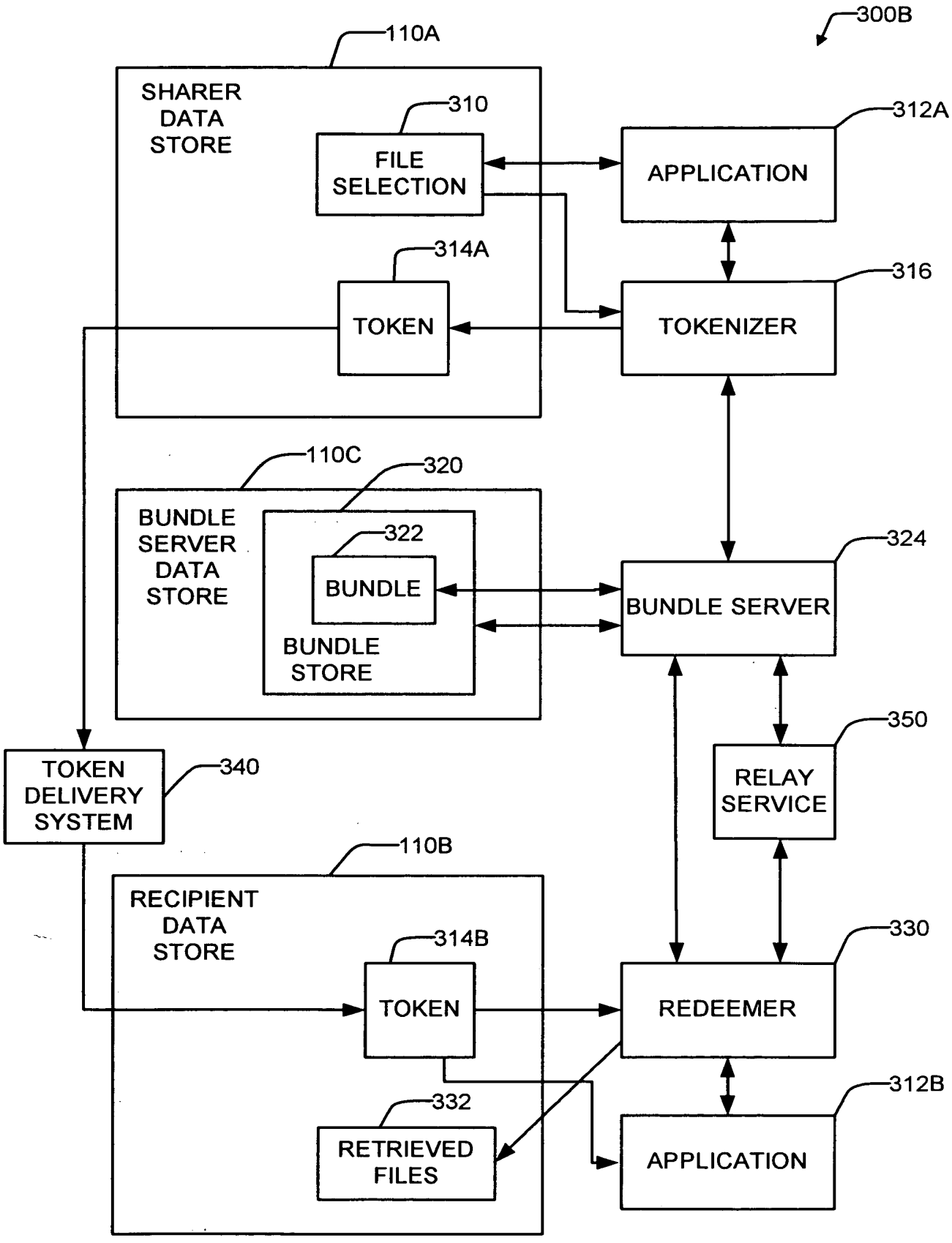
300B
110A
SHARER DATA STORE
310
FILE SELECTION
312A
APPLICATION
314A
TOKEN
316
TOKENIZER
110C
320
BUNDLE SERVER DATA STORE
322
BUNDLE
BUNDLE STORE
324
BUNDLE SERVER
350
RELAY SERVICE
TOKEN DELIVERY SYSTEM
340
110B
RECIPIENT DATA STORE
314B
TOKEN
330
REDEEMER
332
RETRIEVED FILES
312B
APPLICATION

FIGURE 3B

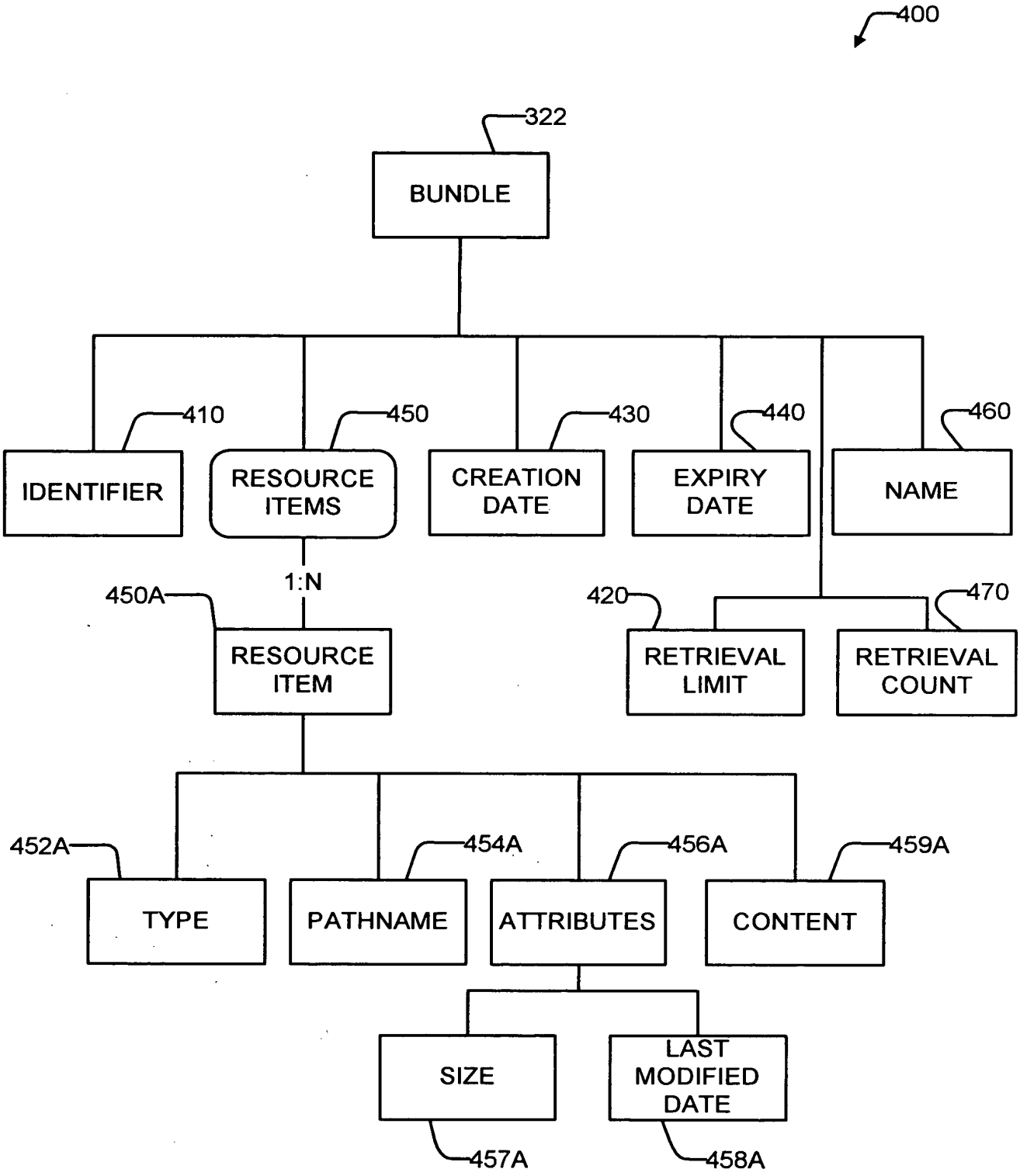
400
322
BUNDLE
410
450
430
440
460
IDENTIFIER
RESOURCE ITEMS
CREATION DATE
EXPIRY DATE
NAME
1:N
450A
420
470
RESOURCE ITEM
RETRIEVAL LIMIT
RETRIEVAL COUNT
452A
454A
456A
459A
TYPE
PATHNAME
ATTRIBUTES
CONTENT
SIZE
LAST MODIFIED DATE
457A
458A

FIGURE 4

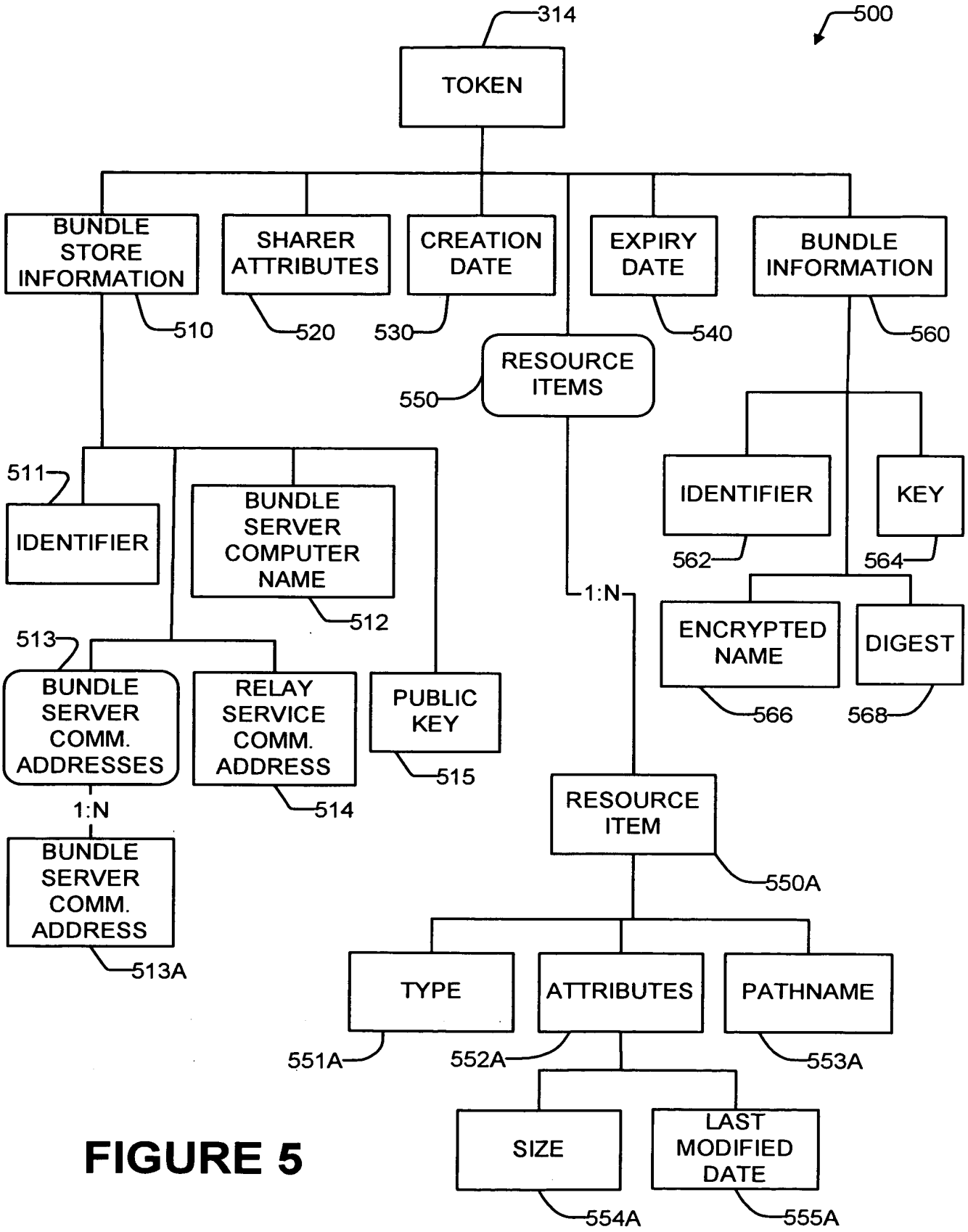
314
500
TOKEN
BUNDLE STORE INFORMATION
SHARER ATTRIBUTES
CREATION DATE
EXPIRY DATE
BUNDLE INFORMATION
510
520
530
540
560
RESOURCE ITEMS
550
511
IDENTIFIER
BUNDLE SERVER COMPUTER NAME
512
513
BUNDLE SERVER COMM. ADDRESSES
RELAY SERVICE COMM. ADDRESS
PUBLIC KEY
514
515
1:N
BUNDLE SERVER COMM. ADDRESS
513A
IDENTIFIER
KEY
562
564
1:N
ENCRYPTED NAME
DIGEST
566
568
RESOURCE ITEM
550A
TYPE
ATTRIBUTES
PATHNAME
551A
552A
553A
SIZE
LAST MODIFIED DATE
554A
555A

FIGURE 5

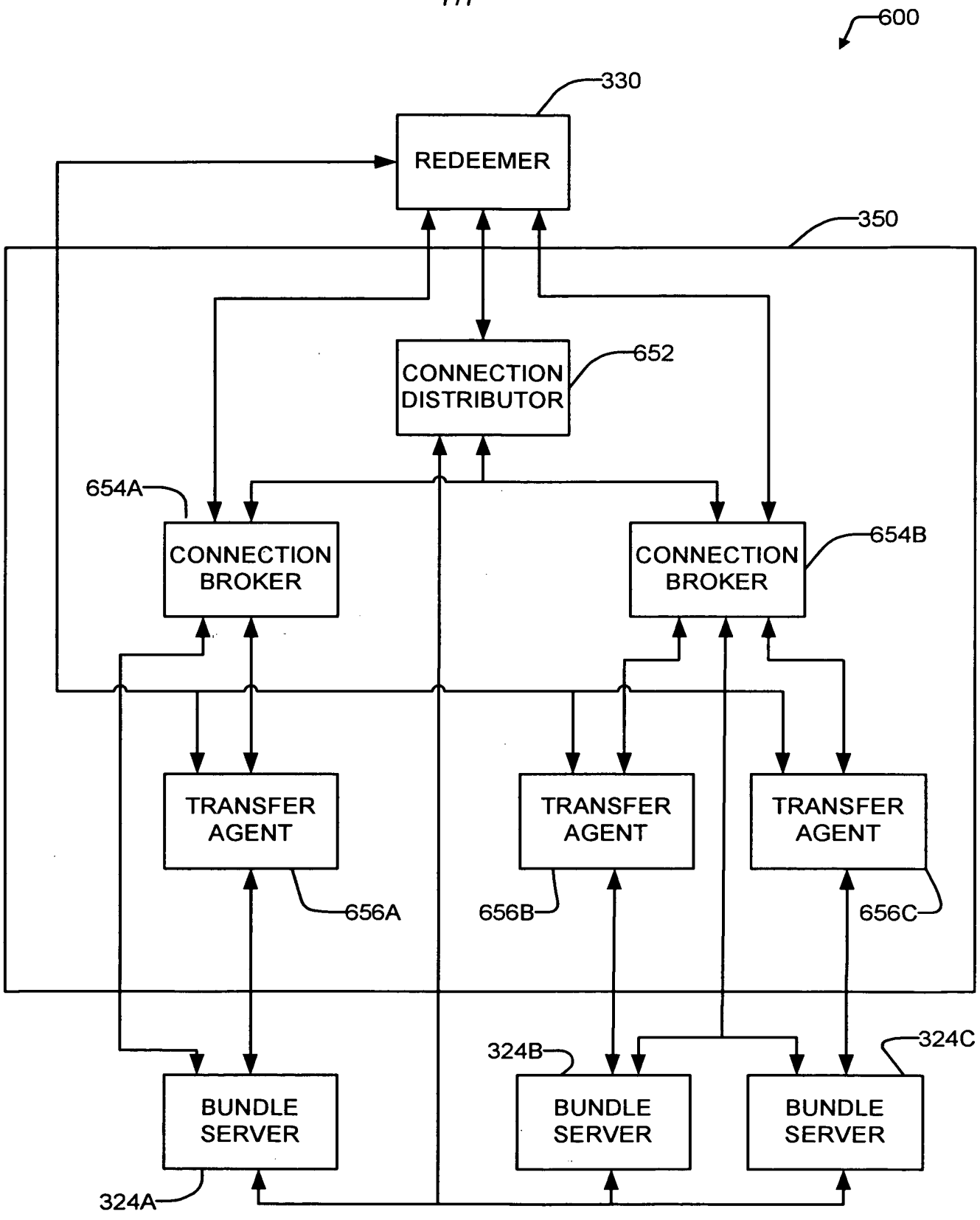
600
330
REDEEMER
350
CONNECTION DISTRIBUTOR
652
654A
CONNECTION BROKER
CONNECTION BROKER
654B
TRANSFER AGENT
TRANSFER AGENT
TRANSFER AGENT
656A
656B
656C
324B
324C
BUNDLE SERVER
BUNDLE SERVER
BUNDLE SERVER
324A

FIGURE 6